

MILCU, St.M.; ~~BROSTEANU, E.~~; IONESCU, B.; NICOLESCU-CATARI, Al.

Considerations on electro-encephalographic modifications in Basedow's disease. Rumanian M. Rev. 1 no.2:58 Apr-June 57.

1. Member of the R.P.R. Academy (for Milcu)

(HYPERTHYROIDISM, manifest.

EEG)

(BRAIN, in various dis.

hyperthyroidism, EEG)

(ELECTROENCEPHALOGRAPHY, in various dis.

hyperthyroidism)

Country : Rumania  
Category : Human and Animal Physiology, The Nervous System T  
Abs. Jour. : Ref Zhur Biol, No. 2, 1959, No. 8436  
Author : Dumitrescu, S.; Brosteanu, E.  
Institut. : --  
Title : Progeria (General Information, Including One  
Case of Encephalopathy in Progeria).  
Orig Pub. : Studii si cercetari endocrinol. Acad. RPR, 1957,  
8, No. 3, 259--283  
Abstract : no abstract

Card: 1/1

*PROST*

FIRICA TEODOR, (Lecturer); CONDREA, H.; NICCA, I.; BROSTEANU, E.

Abdominal epilepsy in the differential diagnosis of the acute abdominal syndrome. Rumanian M. Rev. 2 no.1:67-70 Jan-Mar 58.

(EPILEPSY, differ. diag.

abdom. in acute abdom)

(ABDOMEN, ACUTE, differ. diag.

abdom. epilepsy)

BOTEZ, M.I.; BROSTEANU, E.R.

Research on bilateral on Jacksonian epileptic seizures. Cesk. neur.  
21 no.6:374-381 Nov 58.

1. Neurologicka klinika Statni nemocnice c. 9 a elektroencefalograficka  
laborator endokrinologickeho ustavu C. I. Parhon akademie ved rumunske  
lidove demokraticke republiky, Bukurest.

(EPILEPSY,

Jacksonian seizures, clin. & EEG aspects (Cz))

SPINCHEZ, T., prof.; STOICHITA, S., dr.; GHEORGHESCU, B., dr.; BROSTEANU, E.,  
dr.; MARINESCU, Eliza, dr.; TACORIAN, S., dr.; RUSU, M., dr.;  
STECLACI, A., ing.; MERCULIEV, Elena, fiziciană; BUSNEAG, C., chim.;  
VASILESCU, V., fiz.; STOICA, M.

Contributions to the etiopathogenesis of the early postprandial  
syndrome in gastrectomized patients. Med. inter., Bucur 13 no.5:  
749-758 My '61.

(GASTRECTOMY complications)

STOICHITA, S.; SAFIRESCU, T.; BOICESCU, Lidia; DANCIU, I.; BROSTEANU, E.;  
DEBAU, M.; MARINESCU, Eliza; GAVRILA, I.; GAVRILA, D.; DOMOCOS, A.

Contribution to the study of cardiovascular and respiratory  
disorders in scleroderma. Stud. cercet. med. intern. 4 no.6:  
803-815 '63.

\*

STOICHITA, S., dr.; GHEORGHESCU, B. dr.; BOICESCU, Lidia, dr.; STECLACI, A.  
ing.; DEBAU, M., dr.; MARINESCU, Eliza, dr.; GAVRILA, I. dr.;  
GAVRILA, D. dr.; EROSTEANU, E. dr.; SAFIRESCU, T., dr.

Contribution to the study of digestive disorders in scleroderma.  
Med. intern. (Bucur.) 16 no.4:441-452 Ap'64.

1. Clinica a V-a medicala a Spitalului unificat de adulti al  
Raionului Gr. Rosie din Bucuresti.

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BROSTEANU, GH.

TECHNOLOGY

Periodicals: ENERGETICA. Vol. 6, no. 8, Aug. 1958

BROSTEANU, GH. Apropos of the article "Some Observations Regarding the Possibility of Simplifying Protection By Means of Relay," by Engineer S. Marcu. P. 374

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 2,  
February 1959, Unclass.

IONESCU, M.; BACHU, C.; BROSTEANU, G.; STANCIULESCU, P.; IONESCU, N.

Arteriography in osseous tumors of the extremities. Rev. sci. med. 6  
no.1/2:57-59 '61.

(EXTREMITIES neoplasms)  
(BONE AND BONES neoplasms)  
(ANGIOGRAPHY)

DENICKI, A. [Denitchi, A.]; PANOZA, G.; BROSZTIANU, V. [Brosteanu, G.] (Bukaroszt).

Observations on injuries of the cervical spine. Chir. narzad.  
ruchu ortop. Pol. 28 no.7:809-812 '63

BROSTEANU, RAUL

ND ✓ The action of potassium on neuromuscular excitability. Raul Brosteanu and Rada Ernest Brosteanu. *Comun. Acad. Rep. Populare Române* 2, 176-8 (1952).—Potassium administered as KCl does not modify the neuro-muscular excitability of a sciatic-gastrocnemius prepn. of *Rana viridans*. At concns. of  $10^{-8}$  to  $10^{-6}$  K causes a decrease of the nervous and muscular chronaxia. Concns. higher than  $10^{-5}$  produces irreversible destructive lesions. The action of K is extended to both nervous and muscular chronaxias. Emanuel Merdinez

BROSTEANU, R.; NESTIANU, V.; KRIGHEL, E.

Experimental studies on the theta rhythm in  
electroencephaograms. p. 1003  
Academia Republicii Populare Romine. COMUNICARILE.  
Bucuresti.  
Vol. 5, no. 6, June 1955

SOURCE: East European Accessions List (EEAL) Library of Congress,  
Vol. 5, No. 12, December 1956

BROSTEANU, R.; NESTIANU, V.; CRIGHEL, E.

Electroencephalographic research on cortical reactivity:  
variations of the curve of the latent period of cortical  
reactions to intermittent luminous stimuli, rold of  
experimental spasmodic attacks and barbituric sleep. p. 1013  
Academia Republicii Populare Romine. COMUNICALE.  
Bucuresti.  
Vol. 5, no. 6, June 1955

SOURCE: East European Accessions List (EEAL) Library of Congress,  
Vol. 5, No. 12, December 1956

BROSTEANU, R.

Electroencephalographic studies on cortical reactivity;  
latency of responses from various cortical parts to intermittent  
luminous stimuli. p. 1217. COMUNICARILE. Bucuresti. Vol. 5,  
no. 8, Aug. 1955.

SOURCE: EAST EUROPEAN ACCESSIONS LIST (EEAL) Library of Congress  
Vol. 5, No. 7, July 1956.

KREINDLER, A., academician; VOICULESCU, V.; BROSTRAMU, R.; VOINESCU, I  
NESTIANU, V.

Electrophysiological study of the changes in nociceptive spinal reflex induced by electroconvulsive seizures in cats. Bul. stiint. sect.med. 7 no.1:21-35 Jan-Mar '55.

(CONVULSIONS, experimental electrically induced in cats, eff. on nociceptive spinal reflex)

(REVIEWS nociceptive spinal reflex, in cats, eff. of electroshock)

(ELECTRICITY, effects exper.convulsions, in cats, eff. on nociceptive spinal reflex)

KREINDLER, A., academician, BROSTEANU, R.,; VOICULESCU, V.

The electroencephalogram in neurasthenia. Bul. stint., sect. med.  
7 no.3:775-783 July-Sept 55.

(NEURASTHENIA, diagnosis  
EEG)

(ELECTROENCEPHALOGRAPHY, in various dis.  
neurasthenia)

RUMANIA / Human and Animal Physiology. The Nervous System. T

Abs Jour: Ref Zhur-Biol., No 9, 1958, 41697.

Author : Zager, O.; Broshtianu, R.; Neshtianu, V.; Floria-Chokiu, V.

Inst : Academy of RPR.

Title : The Connection Between the Optical Tract and the Frontal Lobe.

Orig Pub: Zh. med. nauk. Akad. RNR, 1956, 1, No 2, 163-170.

Abstract: The cortex of the hemispheres in cats, with the exception of the right frontal lobe, was removed. Within 2 1/2 years the bilateral loss of the protective defense reflex was noted, together with

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RUMANIA / Human and Animal Physiology. The Nervous System. T

Abs Jour: Ref Zhur-Biol., No 9, 1958, 41697.

Abstract: the loss of the rightsided tactile reflex for standing and posture correction. Rhythm adoption was observed only in the right frontal area after rhythmical stimulation with light at frequencies of 140-470 osc./min. In leads from other areas of the skull, irregular, high amplitude waves of frequency  $\sim 1$  osc/sec. were observed. Inclusion of total illumination blocked the adoption of the stimulation rhythm in the frontal lobe. Interrupted sound stimulation was followed only by respiratory changes and the appearance in all leads of waves of 1 osc./sec. Histologically-total bilateral degeneration of the lateral geniculate bodies was demonstrated. It was established by this method that there exist direct pathways

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RUMANIA / Human and Animal Physiology! The Nervous System. T

Abs Jour: Ref Zhur-Biol., No 9, 1958, 41697.

Abstract: between the optical tracts and the frontal lobe, passing apparently through the hypothalamus, optical cortex and the lateral geniculate bodies.  
-- R. M. Mescherskiy.

T-10

USSR/Human and Animal Physiology - Nervous System.  
Cortex of Cerebral Hemispheres.

Abs Jour : Ref Zhur - Biol., No 7, 1958, 32152

Author : Krigel', E., Broshtyanu, R., Neshtiany, V.

Inst : -

Title : Electroencephalographic Investigation of Cortical Activity.  
Changes of the Curve of the Latent Period of Cortical  
Reaction to Interrupted Light Stimulation. Role of Expe-  
rimentally-Induced Spasm Attack and of Barbituric Sleep.

Orig Pub : Zh. med. nauk Akad. RNR, 1956, 1, No 2, 171-180

Abstract : In unanesthetized cats, the latent period of reactions  
(LPR) in the cortex in the region of the area striate to  
a second or third flash of light (relation of time of  
light and darkness 1/11) significantly exceeded the LPR  
to the first flash. After 7 flashes, LPR began to under-  
go uniform oscillations, which the author characterize by  
a calculated degree of standard deviation.

Card 1/2

Cortex of Cerebral Hemispheres.

Abs Jour : Ref Zhur - Biol., No 7, 1958, 32152

Analogous oscillations of LPR of the retina, measured in  
curarized cats by the "w" wave of ERG, were not observed.  
After a spasm attack caused by electric shock, and during  
barbituric sleep, LPR in the cortex and the degree of  
standard deviation were lowered. It is proposed that in  
response to interrupted light stimulation, compound func-  
tional chains of neurons take part, the periodicity of the  
performance of which is impaired by the first light but is  
then restored. The decrease of LPR and of standard devia-  
tion during parabiotic conditions caused by a spasm attack  
or by barbituric sleep is considered a result of the  
release of some neurons of these chains.

42

The action of strychnine, alone or with potassium, on the  
neuromuscular excitability  
1936, J. Clin. Sci. 1: 207-217. (Cited in J. Clin. Sci. 1: 207-217)  
The effect of strychnine on the neuromuscular excitability  
of the frog muscle preparation is studied. The effect of  
strychnine is shown to be a direct action on the neuromuscular  
junction. The effect of strychnine is shown to be a direct  
action on the neuromuscular junction. The effect of strychnine  
is shown to be a direct action on the neuromuscular junction.

RUMANIA/Human and Animal Physiology - Nervous System.

V-12

Abs Jour : Ref Zhur - Biol., No 1, 1958, 4433  
Author : Brosteanu, R., Stoica I., Brosteanu E.  
Inst : Commun. Academy RPR  
Title : Electroencephalographic Determination of Reactivity in  
Free and Immobilized Rabbits.  
Orig Pub : Comun. Acad. RPR, 1956, 6, pp 855-857  
Abstract : Increased amplitude and encephalographic irregularity  
were observed in immobilized rabbits as well as a  
slowing down of the rhythms.

Card 1/1

*BROSTEANU, R*  
RUMANIA/Human and Animal Physiology - The Nervous System.

V-8

Abs Jour : Ref Zhur - Biol., No 4, 1958, 18564

Author : E. Crighel, R. Brosteanu and V. Nestianu

Inst : -

Title : Electroencephalographic Examination of Cortical Reactivity. The Effect of Chlorpromazine.

Orig Pub : Commun. Acad. RPR, 1956, 6, No 7, 959-963

Abstract : In the first five minutes after cats were injected intravenously with chlorpromazine, a reduction was observed in the latent period of cortical responses to a rhythmic light, and then a brief increase in the latent period. During convulsive seizure the changes in reactivity were the same as in the control animals.

Card 1/1

V-12

RUMANIA/Human and Animal Physiology - Nervous System.

Abs Jour : Ref Zhur - Biol., No 1, 1958, 4443

Author : J. Ungher, R. Brosteanu, V. Hestianu, M. Lillis, B. Moscovici, V. Pompilian

Inst : Commun. Academy RPR

Title : Electroencephalographic Study of Animals under the Effects of Lead Intoxication.

Orig Pub : Commun. Acad. RPR, 1956, 6, No 8, 1033-1043

During the initial 2-3 weeks of chronic Pb injection to (repeated) the animals re-

RUMANIA/Human and Animal Physiology - Nervous System.  
Epilepsy.

T-10

Abs Jour : Ref Zhur - Biol., No 7, 1958, 32182

Author : Kreindler, A., Voiculescu, V., Brosteanu, R, Voinescu, I.

Inst : -

Title : Electric Activity of the Hippocampal Region During an  
Experimentally-Induced Epileptic Attack.

Orig Pub : Studii si cercetari neurol. Acad. RPR. Inst. neurol.,  
1957, 2, No 1, 97-105.

Abstract : In cats, it is shown that electric activity with a rate of  
10-14 os/sec and sometimes a regular rhythm of 20 os/sec  
is characteristic for the hippocampal region. The latter  
rhythm as a rule is 10 times higher in amplitude and coin-  
cides completely in rate with the "pectinate" thalamus  
rhythm.

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EXCERPTA MEDICA Sec 8 Vol 13/5 Neurology May 60

2276. RELATION BETWEEN EEG AND pH OF THE BLOOD IN PETIT MAL -  
Relațiile între electroencefalogramă și pH-ul sângelui în petit mal -  
Goiscean E. and Broșteanu R. - STUD. CERCET. NEUROL. 1958,  
3/3 (343-346) Tables 2

In patients suffering from petit mal a study was made of the variations in the concentrations of hydrogen ions in the blood by means of an i.v. electrode; simultaneous EEG recordings were also made. It was observed that alkalization of the blood occasionally occurred as a result of the petit mal seizure. In curarized cats, electric shock was followed by an increase in pH. It appears, therefore, that in the absence of muscular convulsions, the paroxysmal activity of the brain causes in general, an alkalization of the blood.

Voiculescu - Bucharest (VIII, 19)

VOINESCU, I.; BROSTEANU, R.; VOICULESCU, V.

Electric activity of the subcortical structures during experimental convulsive seizures in cats after bilateral destruction of the hippocampus. Rev. sci. med. 6 no.3/4:211-215 '61.  
(CONVULSIONS experimental) (HIPPOCAMPUS physiology)  
(ELECTROENCEPHALOGRAPHY experimental)

JIANU, Iancu, prof.; NITESCU, I.I., prof.; SCHIAU, S.; PAPAZHAN, R.;  
STOICA; GIOSAN, E.; CORLATEANU, G.; BROSTEANU, R.; TEORDORINI, Sanda

The functional value of atrium diverticula as "ultimum moriens" of  
the heart. Some aspects of the resuscitation problem with description  
of an apparatus. Rumanian M Rev. no.1:175-179 Ja-Mr '61.

(RESUSCITATION equipment and supplies)

(HEART ARREST therapy)

(HEART SURGERY complications)

VOYKULESKU, V. [Voiculescu, V.]; BROSHTYANU, R. [Brostianu, R.];  
VOYNESKU, I. [Voynescu, I.]; STOYKA, I.

Electrical activity of the cortical and subcortical formations  
following ligation of the carotid arteries in cats. Nauch. trudy  
Inst. nevr. AMN SSSR no.1:263-270 '60. (MIRA 15:7)

1. Institut nevrologii imeni Pavlova Akademii Rumynskoy  
Narodnoy Respubliki, Bukharest.

(CEREBRAL CORTEX) (CAROTID ARTERY LIGATION)  
(ELECTROENCEPHALOGRAPHY)

ANASTASIYEV, P.I.; BROSTRE, A.A.; VESHENEVSKIY, S.N.; GEL'MAN, G.A.;  
GORNSHTEYN, L.A.; ZIMENKOV, M.G.; KARVOVSKIY, G.A.;  
KIBLITSKIY, V.A.; KLEYN, P.N.; KLIMIKSEYEV, V.M.; KLYUYEV,  
S.A.; KNORRING, G.M.; KORENEVSKIY, A.N.; LEYBZON, Ya.I.;  
LIVSHITS, D.S.; LIGERMAN, I.I.; LOGINOV, O.I.; MILICH, M.B.;  
NAYFEL'D, M.R.; OKOROKOV, S.P.; POLYAK, A.B.; ROYZEN, S.S.;  
RYABOV, M.S.; SINITSYN, O.A.; SOLODUKHO, Ya.Yu.; SOSKIN, E.A.;  
STASYUK, V.N.; BOL'SHAM, Ya.M., red.; GRACHEV, V.A., red.;  
SAMOVER, M.L., red.; BORICHEV, I. Ye., red.; DANILENKO, A.I.,  
red.; KHRAMUSHIN, A.M., red.; YAKUBOVSKIY, F.B., red.;  
BRENDENBURGSKAYA, E.Ya., red.; KOMAR, M.A., red.; BORUNOV,  
N.I., tekhn. red.

[Handbook on electrical systems of industrial enterprises  
in four volumes] Spravochnik po elektroustanovkam promyshlen-  
nykh predpriatiy v chetyrekh tomakh. Pod obshchei red. I.E.  
Boricheva i dr. Moskva, Gosenergoizdat. Vol.1. [Design of  
electrical systems of industrial enterprises in two parts]  
Proektirovanie elektroustanovok promyshlennykh predpriatiy  
v dvukh chastiakh. Pt.2. Pod red. I.A.M.Bol'shama i dr.  
1963. 598 p. (MIRA 17:3)

BROSTREM, A.A., inzh.

Factors affecting the high temperature strength of polycrystalline  
solids. Metalloved. i term. obr. met. no.9:49-58 S '62.

(MIRA 16:5)

(Creep of metals)

ACC NR: AP7000594

SOURCE CODE: UR/0129/66/000/011/0035/0039

AUTHOR: Brostrem, V. A.; Geller, Yu. A.

ORG: Moscow Machine Tool and Tool-Making Institute (Moskovskiy stankoinstrumental'nyy institut)

TITLE: Transformations and properties of high-speed alloys with intermetallide hardening

SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 11, 1966, 35-39

TOPIC TAGS: high speed alloy, iron base alloy, metal cutting, cutting tool, tool steel, hardness, phase composition / V27K25 high speed alloy, V27K25N3 high speed alloy, V27K25G4 high speed alloy, V27G25N2Kh2 high speed alloy, V27K25Kh4 high speed alloy, V20M7K25 high speed alloy

ABSTRACT: Certain alloys of the Fe-Co-W system which undergo  $\gamma$ - $\alpha$  transformation of a martensitic nature display exceptionally high hardness ( $H_{RC}$  68-70) which is greatly resistant to tempering (tempering at 600°C for 25 hr reduces this Rockwell hardness by only one point). But the utilization of these alloys in toolmaking is complicated by their considerable brittleness. It has been established that in some cases such brittleness can be reduced by treating these alloys with small amounts of Ni, Mn, Cr, Ti or V. So far, however, the effect of these

UDC: 620.17:669.14.3

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ACC NR: AP7000594

alloy elements on the properties of alloys of this kind has not been investigated. To fill this gap, the authors investigated the effect of Mn, Ni and Cr on the properties of alloys containing 18.9-27.9% W, 24.3-25.1% Co, up to 0.1% C, 0.5-0.6% V and 0.1-0.2% Ti, with Fe as the remainder.

Table

Name of alloy	Content of elements in %				
	C	W	Co	Cr	Ni
V27K25	0.06	26.1	24.5	-	-
V27K25N3	0.07	25.0	24.3	-	3.2
V27K25G4*	0.06	25.8	24.5	-	-
V27G25N2Kh2	0.06	25.7	25.0	1.9	1.9
V27K25Kh4	0.07	27.9	25.1	3.7	-
V20M7K25 **	0.08	18.9	24.9	-	-

\* 4.1% Mn

\*\* 6.6% Mo

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ACC NR: AP7000594

The alloys were heated in a salt bath and quenched from 1300°C in oil (such heating assures greater resistance to tempering than quenching from 1250°C) and tempered at 300-1000°C for 2 hr. Radiographic examination showed that all the alloys (except V27K25Kh4 which contains 70-80% of  $\gamma$ -phase) consist of  $\alpha$ -solid solution and  $\theta$ -phase. After this, the alloy specimens were subjected to Rockwell red hardness tests and their saturation magnetization, electrical resistivity and lattice parameter were analyzed. Findings: Treatment with Cr, Mn, Ni reduces red hardness only insignificantly so that it still remains higher ( $H_{RC}$  59-62) than that of comparably heat-treated high-speed steel R18. Cutting properties were evaluated during machining with tools tipped with these alloys. It was established that the permissible cutting rate was 10.4 m/min for tools tipped with V27K25 and V20M7K25 alloys compared with 6.2 m/min for tools tipped with R18 steel; the findings for the alloys additionally treated with Cr, Ni and Mn were not as satisfactory. The investigated alloys may be divided into two groups according to the composition of their hardening phases: group 1, containing the alloys V27K25 and V20M7K25 and group 2, containing the alloys treated with Ni, Mn and Cr. In group 1 a sharp increase in the solubility of W (as evidenced by measurements of saturation magnetization and electrical resistivity) sets in at 900-950°C, whereas in group 2 this sets in at 750-850°C. This indicates that the two-phase  $\alpha + \gamma$  region of the alloys exists at these temperatures. The machining of such relatively nonmachinable materials as 30Kh10G10 steel involves the rise of high temperatures in the surface layers of the cutting tools, and the alloys with higher temperatures of the recryst-

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ACC NR: AP7000594

tallization of the  $\alpha$ -solid solution and of  $\alpha \rightarrow \gamma$  transformation will thus display higher hardness, strength and wear resistance at high temperatures. This accounts for the superiority of alloys in group 1 and particularly the alloy V20M7K25 in which 7% of W is replaced with Mo (6.6%). By contrast, treatment with Mn, Ni and Cr reduces the temperature of phase transformations and adversely affects the cutting properties and strength of the alloys. Orig. art. has: 3 tables, 3 figures.

SUB CODE: 13, 11, 20/ SUBM DATE: none/ ORIG REF: 003/ OTH REF: 003

Card 4/4

ACC NR: AP7005397

SOURCE CODE: UR/0148/67/000/001/0142/0145

AUTHOR: Brostrem, V. A.; Geller, Yu. A.; Lozinskiy, M. G.

ORG: Moscow Institute of Machine Tools and Instruments (Moskovskiy stankoinstrumental'nyy institut)

TITLE: A method for determining the red hardness of high-speed alloys

SOURCE: IVUZ. Chernaya metallurgiya, no. 1, 1967, 142-145

TOPIC TAGS: hardness, high speed alloy, dispersion hardening, iron base alloy, tungsten containing alloy, cobalt containing alloy

ABSTRACT: Methods are developed for determining the red hardness of precipitation-hardened alloys. The following alloys were studied in the Fe-Co-W system with additions of molybdenum, chromium, manganese and nickel: V27K25, V20M7K25, V27K25Kh4, V27K25G4, V27K25N3, V20M7K30 and V20M7K20. Control tests were also conducted using R18 standard high-speed steel. The results were compared with the variation in hardness after two hours of annealing in the same temperature range. The dispersion-hardened specimens were quenched after heating to 1300°C and holding for 4 minutes, and then tempered at 600°C for 2 hours. Conventional heat treatment was used on the specimens of R18 steel (quenching from 1280°C, triple annealing at 560°C). The Vickers hardness was measured under a load of 1 kg on a UIMV-1 installation with heating in a vacuum to 20, 500 and 600°C with following measurements every 50° to 850°C. The re-

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UDC: 669.018.25:620.172.251.222

ACC NR: AP7005397

sults show only slight differences in the red hardness of dispersion-hardened alloys as determined from hardness measurements in the cold state after heating to 700-750°C (2-3 HRC units). At the same time, the alloys differ considerably with respect to hot hardness: for instance V27K25 and V20M7K25 show a hardness of 400-430 HV at 750°C while V27K25G4 and V27K25N3 alloys show a hardness at this same temperature of only 170-190 kg/mm<sup>2</sup>. A direct relationship was observed between the hot hardness and the cutting properties of the alloys. Machining tests using tools made from the various alloys for continuous turning of 1Kh18N9T steel at a speed of 33 mm/min and a feed rate of 0.3 mm/rev taking a cut of 1 mm gave stabilities of 18, 20, 5, 3 and 3 minutes for V27K25, V20M7K25, V27K25N3 and V27K25G4 alloys and R18 high-speed steel respectively. With continuous turning of 30Kh10G10 steel, the stability of V20M7K25 and V27K25 alloys was 20 times higher than that of V27K25G4 and V27K25N3 alloys and R18 steel. The discrepancies between hardness and cutting properties indicate that the temperature for beginning of the  $\alpha \rightarrow \gamma$ -transformation in V27K25 and V20M7K25 alloys is 920-910°C, while the corresponding temperature for V27K25G4 and V27K25N3 is 750-770°C. This conclusion is confirmed by measurements of resistivity and coercive force. Orig. art. has: 2 figures, 2 tables.

SUB CODE: 11/ SUBM DATE: 18Feb66/ ORIG REF: 03

Card 2/2

ARUTYUNOV, A. I., zasluzhennyy deyatel' nauki, prof.; BROTMAN, M. K.,  
starshiy nauchnyy sotrudnik (Kiyev)

Lumbosacral radiculitis and degenerative changes in the lumbar  
intervertebral disks. Vrach. delo no.3:3-13 Mr '62.  
(MIRA 15:7)

1. Ukrainskiy nauchno-issledovatel'skiy institut neyrokhirurgii.
2. Chlen-korrespondent AMN SSSR (for Arutyunov).

(NERVES, SPINAL--DISEASES)  
(INTERVERTEBRAL DISK--HERNIA)

BROSZ, Magdalena

PETRE, I.

STRAUS - continued

RUMANIA

Bucharest, Igiena, Revista de Igiena si Sanatate Publica A Uniunii  
Societatilor de Stiinte Medicale din Republica Populara Romina.  
No 4, July-August 62, pp 305-309.

"Research on the Variations in Iodine Concentration of Drinking  
Water Sources in Transylvania."

BROSZ, Magdalena.

STRAUS, H.

HEILBERG, M. W.

PETRE, I.; BROSZ, Magdalena

The iodine content of the drinking water of the towns in  
Transylvania. Stud. cercet. endocr. 15 no.3:267-269 '64.

BROSZEWSKI, J.; PANCEWICZ-OLSZEWSKA, W.

A case of obstructive jaundice caused by chronic inflammation of the head of the pancreas. *Pediat. polska* 34 no.6:835-838 June 59.

1. Z I Kliniki Chorob Dzieciecych A. M. w Poznaniu Kierownik: prof. dr med. T. Rafinski i z III Kliniki Chirurgicznej A. M. w Poznaniu Kierownik: doc. dr med. J. Borszewski  
(JAUNDICE OBSTRUCTIVE, etiol.)  
(PANCREATITIS, compl.)

JUS, A.; BROSZKIEWICZ, E.; EKIERT, H.; FLATAU, H.; GMRARD, K.;  
LASKOWSKA, D.; SZAJBEL, W.

Studies on conditioned reflex reactions during insulin therapy  
of schizophrenia. Neurologia etc. polska 4 no.1:1-15 Ja-F '54.

1. Z Panstwowego Instytutu Psychoneurologicznego w Pruszkowie.  
Dyrektor: Prof. dr Z.Kuligowski.

(SCHIZOPHRENIA, therapy,  
\*shock ther., insulin, conditioned reflex reactions  
during ther.)

(SHOCK THERAPY, INSULIN, in various diseases,  
\*schizophrenia, conditioned reflex reactions during ther.)

(REFLEX, CONDITIONED,  
\*in insulin shock ther. of schizophrenia)

JAROSZYNSKI, Jan; BROSZKIEWICZ, ~~Ma~~; GERARD, Kira; KOLAKOWSKA, Tamara

Some data on the dynamics of catatonic stupor; 1st communication.  
Neur. &c.polska 5 no.2:149-159 Mr-Apr '55.

1. Z Panstwowego Instytut Psychoneurologicznego w Pruszkowie.  
Dyrektor: prof. dr Z. Kuligowski  
(SCHIZOPHRENIA  
catatonia, physiol. & ther.)

JUS, Andrzej; BROSZKIEWICZ, Ewa; GERARD, Kira; KOZACZEWSKA, Wiesława

Comparison of the results of largactil and serpasil therapy of  
paranoid schizophrenia. Neur. &c. polska 9 no.4:511-524  
Jl-Ag '59.

1. Z I Oddziału psychiatrycznego Instytutu Psychoneurologicznego  
w Pruszkowie Kierownik Oddziału: prof. A. Jus Dyrektor Instytutu:  
prof. Z. Kuligowski.

(SCHIZOPHRENIA ther)

(CHLORPROMAZINE ther)

(RESERPINE ther)

ALAPIN, Boleslaw; BROSZKIEWICZ, Ewa; FILIPOWICZ, Maria

Therapy of depressive states with tofranil..(G-22355 Geigy). Polski tygod. lek. 14 no.45:2001-2005 9 Nov 59.

1. (Z Zakladu Psychiatrii Studium Doskonalenia Lekarzy w A. M. Warszawie, kierownik Zakladu: prof. A. Jus i z Pracowni Histopatologicanej Instytutu psychoneurologicznego; dyrektor Instytutu: prof. Z. W. Kuligowski).

(TRANQUILIZING AGENTS, ther.) (DEPRESSION, ther.)

BROSZKIEWICZ, J.

BROSZKIEWICZ, J. 35 years of life. p. 22. Vol. 6, no. 2, Jan. 1956.  
ZOLNIERZ POLSKI. Warszawa Poland

SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4--April 1957

BROSZKIEWICZ, Janusz, mgr inz.; DUDZINSKI, Zbigniew, mgr inz.

Network engineering, a particular field in telecommunication.  
Przełł telekom 37 no.2:33-36 F '65.

BROSZKIEWICZ, R.

Ionizing radiation as a new means of sterilizing food products. p. 110.

(PRZEMYSŁ SPOŻYWCZY. Vol. 11, No. 4, Apr. 1957, Warszawa, Poland.)

SO: Monthly List of East European Accessions (EEAL) Lc. Vol. 6, No. 10, October 1957. Uncl.

POLAND / Microbiology. General Microbiology. Effect of External Agents. Disinfection. F

Abs Jour: Ref Zhur-Biol., No 2, 1959, 5436.

Author : Broszkiewicz, R.  
Inst : Not given.  
Title : Ionizing Radiation - A New Means of Sterilizing Dressings and Medicinal Agents.

Orig Pub: Farmac. polska, 1957, 13, No 4, 86-90.

Abstract: No abstract.

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BROSZKIEWICZ, R.

Application of ionizing radiation to the sterilization of foods and medicaments. p. 35.

NUKLEONIKA. (Polska Akademia Nauk. Komitet do Spraw Pokojowego Wykorzystania Energii Jadrowej) Warszawa, Vol, 4, no. 1, 1958.

POLAND

COUNTRY : POLAND H  
CATEGORY : Chemical Technology, Chemical Products and Their  
Applications. Food Industry.  
ABS. JOUR. : RZhKhim., No 17, 1959, No. 62510  
AUTHOR : Broszkiewicz, R.  
INSTITUTE : -  
TITLE : Application of Ionizing Radiation for the Steri-  
lization of Food Products and Medicinal Prepara\*  
ORIG. PUB. : Nukleonika, 1959, 4, No 1, 35-46  
  
ABSTRACT : Review. Bibliography of 32 titles.

Card:           \*tions.  
                  1/1

28.3000  
5(0),17(3),21(1,4)

67782  
POL/46-4-6-5/19

AUTHOR: Broszkiewicz, Roman

TITLE: Application of Radio-Isotopes<sup>19</sup> in Poland in 1958

PERIODICAL: Nukleonika 1959, Vol IV, Nr 6, p 611 - 624

ABSTRACT: Information in this article was compiled from the records of Dział Dystrybucji Izotopów Instytutu Badań Jadrowych PAN (Isotope Distribution Section of Nuclear Research Institute of the Polish Academy of Science) and answers to a questionnaire distributed to all purchasers of isotopes in Poland. Following quantities of isotopes were imported: From USSR - 427, 898.5 mc, from Great Britain - 2,826.1 mc, from France -1,674.0 mc, and from Belgium - 44,6 mc. A total of 44 radio isotopes in 119 various chemical forms were imported including 23 compounds marked with  $^{14}\text{C}$ , 10 phosphorus compounds marked with  $^{32}\text{P}$ , and 13 compounds  $^{35}\text{S}$ . 240 persons in 42 various institutions are working on isotopes, but Katedra Chemji

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Organicznej Uniwersytetu Warszawskiego, (Chair of Organic Chemistry of Warsaw-University), Katedra Fizyki Doświadczalnej Uniwersytetu M. Curie-Skłodowskiej (Chair of Experimental Physics of University Im. M. Curie-Skłodowskiej), Centralne Laboratorium Ochrony Radiologicznej (Central Laboratory of Radiological Protection), Studium Techniki Izotopowej Akademii Górniczo-Hutniczej (College of Isotope Technique at the Mining and Metallurgical Academy), Zakład Radiologii Przemysłowej Instytutu Elektrotechniki (Industrial Radiology Branch of the Electrotechnical Institute) and IBJ Branches (Institute for Nuclear Research) employ 150 persons in this type of work which is 60% of the total figure. In spite of the relatively short time since isotope studies were introduced in Poland, already 186 scientific papers on subjects connected with it

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were published or are ready for publication. Problems of isotope application are studied in the following institutions: Biology: Zakłady Biochemji Ewolucyjnej Instytutu Biochemji i Biofizyki PAN (PAN Institute of Biochemistry and Biophysics Evolutional Biochemistry Branch led by Prof.Dr.J. Heller, studies bio-synthesis of protein and pyrophosphates in butterflies. Zakład Biofizyki Instytutu Biochemji i Biofizyki PAN oraz Zakład Biochemji Państwowego Zakładu Higieny (Biophysics Branch of PAN Institute of Biochemistry and Biophysics and Biochemistry Branch of State Institute of Hygiene) led by Prof. Dr.D. Shugar, investigate problems of metabolism of regenerating rats liver, quantitative color reactions on histological slices and histochemistry of enzymes. Zakład Ochrony Zdrowia IBJ (IBJ Health Health Protection Branch) led by Docent Dr.E. Kowalski investigates biosynthesis of haem, conducts ana-

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lysis and metabolism of lipides and proteins, measurement of internal contamination and neutralisation of radioactive wastes. Chemistry: Zakład Radjochemji IBJ (IBJ Radio-Chemistry Branch) investigates the mechanism of adsorption of kations and anions on metal surfaces, mechanism of extraction from water-solutions with application of organic solvents, mechanism of co-precipitation of isotopes from water-solutions, atom excitation in n-gamma reactions, isomeric transition and emission of beta-particles in organic and inorganic systems, measuring systems for tritium and properties of

<sup>239</sup>Pu in organic phase. Zakład Chemji Analitycznej IBJ (IBJ Analytical chemistry branch), led by Prof Dr. J. Minczewski investigates application of isotope indicators in analytical methods. Instytut Produkcji i Dystrybucji Izotopów i Związków Znaczonych IBJ (IBJ

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APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000307020013-5"

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from the mechanism of reactions of some derivatives of simple sugars. Katedra Chemji Nieorganicznej I, Politechniki Wrocławskiej (Chair of Inorganic Chemistry I. of Wrocław Polytechnic) led by Professor Dr. W. Trzebiatowski, investigates the exchange of isotopes. Physics: Katedra Fizyki II, Akademii Górniczo-Hutniczej, Studium Techniki Izotopów Promieniotwórczych (Chair of Physics II, of Mining and Metallurgical Academy, Section of Radio-Isotope Engineering) led by Professor Dr. M. Miesowicz deals with radiological measurements. Katedra Fizyki II Politechniki Gdańskiej (Chair of Physics II of Gdańsk Polytechnic) led by Professor Dr. I. Adamczewski studies diffusion in solids. On top of these activities, both institutions conduct investigations on application of radio-isotopes in the metallurgical industry, mainly in defectoscopy and in mining industry for prospecting and ex-

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ploring of potassium salt deposits. Engineering: Zakład Radiologii Przemysłowej Instytutu Elektrotechniki (Industrial Radiology Branch of the Electro-Engineering Institute) led by Master of Engineering J. Domanus, studies radio-isotope application for indestructive material tests, radiological protection, application of radio-isotopes in industrial measurements, for controlling liquid levels and for irradiation. Samodzielna Pracownia Badań Izotopowych Instytutu Podstawowych Problemów Techniki PAN (Institute of Basic Engineering Problems PAN, Independent Laboratory for Isotope Investigations) led by Docent M. Radwan, carries out investigations on defectoscopy by means of Beta - X converter. Zakład Badań Strukturalnych Instytutu Metalurgii Żelaza (Institute of Iron Metallurgy, Section of Structural Investigations) led by Master of Engineering J. Siewierki, applies radio-isotopes for evaluation of refractory goods and progress of wear

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on blast furnace cores. Pracownia Izotopowa Instytutu Budownictwa Wodnego PAN (Institute of Hydrotechnics PAN, Isotope Laboratory) led by Master J. Makowski, studies ways of how isotopes could be used for controlling leakages in sewerage canals, movement of gravel under water and estimating the level of flowing water. Pracownia Radiometryczna Zakładu Geofizyki Instytutu Naftowego (Radiometrical Laboratory of Geophysical Branch of the Institute of Petroleum) led by Engineer Z. Zakrocki, investigates isotope methods for estimating drilling hole profile and floating of deposits. Health Service: There are 20 institutions with 114 employees applying isotopes in health service. Four of these institutions, Zakład Fizyki Akademji Medycznej w Warszawie (Physics Laboratory of Warsaw Medical Academy), Zakład Fizyki Akademji Medycznej w Gdańsku (Physics Laboratory of

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Gdańsk Medical Academy), Instytut Onkologii w Warszawie (Warsaw Oncology Institute) and Instytut Onkologii w Gliwicach (Gliwice Oncology Institute) jointly employ 55 persons i.e. about 50% of the total. They investigate mostly biochemical phenomena, using isotope marked compounds. Out of 64 papers already prepared 49 deal with biochemistry and isotope preparations, 2 with diagnostic methods, 8 with isotope therapy, 3 with atmospheric pollution 1 with radiological protection and 1 with radiological measurement. Medical centers carry out instructions and schooling on handling radio-isotopes as well. Following health service institutions use isotopes for therapeutical and diagnostical purposes: Zakład Chemji Fizjologicznej Akademji Medycznej w Krakowie (Physiological Chemistry Institute of Kraków Medical Academy) led by Professor Dr. B. Skarżyński, studies the problems of metabolism of sulphur autotrophic bacteria, biochemistry

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of vitamin B<sub>12</sub> and biosynthesis of proteins. Zakład Histologii i Embriologii Akademii Medycznej w Warszawie (Histology and Embriology Institute of Warsaw Medical Academy) led by Docent Dr.K. Ostrowski, investigates methods of microautoradiography. Zakład Biochemji Instytutu Hematologii (Biochemical Section of Hematology Institute) led by Docent K. Zakrzewski, investigates transformations of nucleinic acids, synthesis of proteins and phosphorus location in organs. Zakład Izotopowy Instytutu Medycyny Pracy w Przemśle Włókienniczym i Chemicznym (Isotope Section of Labor Medicine Institute in Textile and Chemical Industries) led by Dr. J.Liniecki investigates radiotoxycological and analytical problems. Zakład Fizyki Akademii Medycznej w Gdańsku (Gdansk Medical Academy, Physics Laboratory) led by Professor Dr.I. Adamczewski, investi-

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gates radio-contamination of air and water, dielectrical liquids and measurement of ionising radiation. In conjunction with Clinic Nr II for Internal Diseases, it investigates the course of aplastic anemia and with the Laryngological Clinic the activity and localisation of thyroid gland. Oddział Izotopowy i Pracownia Radiologiczna Instytutu Onkologicznego w Warszawie (Warsaw Oncology Institute, Isotope Section and Radiobiological Laboratory) led by Dr. J. Swiecicki, applies  $^{56}\text{Fe}$  isotopes for investigation of iron circulation in patients suffering from polycythemia, and  $^{131}\text{I}$  for investigation of iodine accumulation by thyroid-gland tumors. Further, for therapeutical purposes they use  $^{60}\text{Co}$ , for telegamma therapy of tumors,  $^{198}\text{Au}$  (metallic) for bladder cancer,  $^{198}\text{Au}$  (colloidal) against cancer of pleura and peritoneum, and  $^{32}\text{P}$  for treatment of chronic leukaemia, polycythemia and

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some forms of skin tumors. Three persons were examined and 138 treated . Oddział Lecznictwa Radioizotopami i Zakład Radiobiologii Instytutu Onkologii w Gliwicach (Gliwice Onkology Institute, Radio-isotope therapy Section and Radiology Section) led by Dr. J. Swiecicki uses  $^{56}\text{Fe}$  for investigation on erythropoiesis and accumulation of iodine in thyroid gland. Those two sections use radioisotopes for diagnosis of thyroid-gland cancer and treatment of this type cancer, polycythemia, leukaemia, thrombo-cythemia, some tumors of soft tissues and bladder cancer. Seventy patients were diagnosed and 57  $\checkmark$  treated with marked improvement. II Klinika Chórob Wewnętrznych Akademii Medycznej w Poznaniu, (Poznań Medical Academy, II Clinic of Internal Diseases) led Professor Dr. J. Roguski, applied  $^{131}\text{I}$  for diagnostic investigation of thyroid gland activities, vitamin  $\text{B}_{12}$  marked with  $^{60}\text{Co}$  for differentiation of anaemia.

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Isotope  $^{131}\text{I}$  is used for treatment in case of thyroid gland hyperfunction and  $^{32}\text{P}$  in cases of polycythemia. A total of 212 patients were diagnosed and 67 treated. Application of isotopes in industrial centers: The most important way of isotope application is for defectoscopy in the metallurgical industry and for geological prospecting in the mining industry. Some institutions use natural radioactive elements for permanently luminous paints. Altogether about 129 persons are working with isotopes in the industry. The more important industrial centers applying radio-isotopes are the Huta Im Lenina (Metallurgical Plant Im.Lenina) using isotopes for defectoscopy and metal sheet thickness measurement, and in conjunction with the Instytut Metalurgii Zelaza (Iron-metallurgy Institute) to measure the wear on blast-furnace cores. Zakłady Wzrobów Elektrotechnicznych "Eltra" (Electrotechnical Equipment Plant) uses isotopes for scaling dosimetric equipment and fabrication

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of control preparations for the above equipment. Biuro Dokumentacji Geologicznej Górnictwa Węglowego i Zakład Geofizyki Przemysłu Naftowego (Coal Mining Geological Documentation Office and Petroleum Industry Geophysical Institute) use isotopes for geological prospecting. Przedsiębiorstwo Montażu Elektrowni i Urządzeń Przemysłowych "Energomontaż- Południe", (Electric Power Stations and Industrial Equipment Construction Enterprise) Huta Warszawa (Warszawa Metallurgical Plant) and Zakłady Mechaniczne im. Gen. K. Świerczewskiego (Mechanical Plant Im. Gen. K. Świerczewski) use isotopes for defectoscopy. There are 6 tables. ✓

ASSOCIATION: Instytut Badań Jądrowych PAN, Warszawa, Dział Dystrybucji Izotopów. (Nuclear Research Institute PAN, Warsaw, Isotope Distribution Section)

SUBMITTED: June 1959.

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BROSZKIEWICZ, R.; MINC, S.; ZAGORSKI, Z.

The possibility of radiation nitration of aromatic hydrocarbons.  
Bul chim PAN 8 no.3:103-104 '60. (EEAI 10:9/10)

1. Laboratory of Radiation Chemistry, Institute of Nuclear Research,  
Polish Academy of Sciences. Presented by T. Urbanski.

(Radiation) (Nitration) (Hydrocarbon)  
(Aromatic compounds)

BROSKIEWICZ, Roman; MINC, Stefan

The radiation induced oxidation and reduction reactions of iron in aqueous solutions. II. Nukleonika 7 no.7/8:483-486 '62.

1. Polish Academy of Sciences, Institute of Nuclear Research, Department of Radiation Chemistry, Warsaw.

BROSZKIEWICZ, Roman

Radiation-induced oxidation and reduction reactions of iron in aqueous solutions. Pts. 5-6. Nukleonika 8 no. 9: 617-634 '63.

1. Institute of Nuclear Research, Department of Radiation Chemistry, Warsaw.

BROSZKIEWICZ, Roman

Radiation-induced oxidation and reduction reactions of iron  
in aqueous solutions. Nukleonika 8 no.10:641-648 '63.

1. Institute of Nuclear Research, Department of Radiation  
Chemistry Warsaw 9.

L 15234-65 EWG(j)/EWT(m)/EWP(j)/T/EWA(h)/EWA(1) Pc-4/Feb DIAAP RM

ACCESSION NR: AP4045668

P/0046/64/009/07-/0611/0623

AUTHOR: Minc, S. (Mints, S.); Zagorski, Z. P. (Zagurski, Z. P.);  
Broszkiewicz, R. (Broshkevich, R.)

TITLE: Continuous methods of tracing chemical changes in fluids under gamma irradiation

SOURCE: Nukleonika, v. 9, no. 7-8, 1964, 611-623

TOPIC TAGS: fluid chemical change, gamma irradiation, trace method, spectrophotometry, polarography

ABSTRACT: Investigations were conducted to develop continuous methods of tracing chemical changes in the gamma radiolysis of solutions, since conventional methods of identification after irradiation have not led to a sufficient understanding of the chemical processes caused by gamma irradiation. Two methods were adopted for use in intense fields of gamma radiation (on the order of 100 rad/sec), spectrophotometry and polarography. All factors influencing the measure-

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ACCESSION NR: AP4045668

ments were investigated. As a result of the measurements, kinetic curves were obtained showing the changes in the concentration of particular reagents in the system as a function of the time of irradiation and the time elapsed after it. The high sensitivity of the measurements made it possible to determine the kinetics of medium-stable intermediate products of radiolysis, e.g., in the case of water, hydrogen peroxide which occurs as an intermediate in oxidation reactions initiated by radiation. The techniques developed for continuous analysis during irradiation were used in investigations of several systems, with primary attention being devoted to the redox system of iron (II/III). It was determined that the change in the oxidation state of iron under irradiation proceeds at the expense of organic compounds and oxygen present in the solution. Orig. art. has: 10 figures and 2 tables.

ASSOCIATION: Institute of Nuclear Research, Warsaw

SUBMITTED: 00

ENCL: 00

SUB CODE: NP

NO REF SOV: 000

OTHER: 025

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L 27448-66 EPF(n)-2/EWP(t)/EWP(b) IJP(c) JD/WB/OG  
ACC NR: AP6001419 SOURCE CODE: PO/0046/65/010/005/0303/0310

AUTHOR: Broszkiewicz, Roman--Broshkevich, R. 45

ORG: Department of Radiation Chemistry, Institute for Nuclear Research, Warsaw B

TITLE: Radiation-induced oxidation and reduction reactions of iron in aqueous solutions  
IX. Effect of pH on redox processes in the irradiated Fe-H sub 2-SO sub 4-isobutyl  
alcohol-H sub 2 O-O sub 2 system.

SOURCE: Nukleonika, v. 10, no. 5, 1965, 303-310

TOPIC TAGS: redox reaction, iron, aqueous solution, oxidation, oxygen, radiation  
chemistry, alcohol, ion, sulfuric acid

ABSTRACT: Oxidation of ferrous and reduction of ferric ions was observed in irradiated  
aqueous solutions containing initially ferrous ions, isobutyl alcohol, and oxygen.  
The solutions were investigated either in  $10^{-3}N$  H<sub>2</sub>SO<sub>4</sub> or at pH 5.25. The effects of  
other organic additives were tested. The results are consistent with those obtained  
previously for similar solutions in 0.1N H<sub>2</sub>SO<sub>4</sub> and show that such a system may be  
useful as a model in radiobiological research. Orig. art. has: 3 figures, 10 formulas,  
5 tables. [NA]

SUB CODE: 07, 18 / SUBM DATE: none / ORIG REF: 006 / OTH REF: 009

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BROTANIK, Vl.; POSPISIL, J.

Menorrhagia caused by irregular shedding of endometrium. *Cesk.gyn.*  
25[39] no.7:553-558 S '60.

1. Ustav pro peci o matku a dite v Praze-Podoli, prednosta doc.  
dr. Vojta.

(MENORRHAGIA AND METRORRHAGIA etiol.)

BROTANEK, V.

The importance of change in the membrane potential of the myometrium in the beginning of labor. Cesk. fysiол. 11 no.4:356-366 '62.

1. Ustav pro peci o matku a dite, Praha.  
(LABOR physiол) (UTERUS physiол)

KAZDA, Stanislav, CSc.; BROTANEK, Vladimir

Role of the cervix uteri in the onset of labor. Cesk. gyn. 27[41]  
no.5:333-337 Je '62.

1. Ustav pro peci o matku a dite, Praha-Podoli, red. doc. dr. M.Vojta,  
technicka spoluprace inz. M.Pirner, Metra-Praha.  
(LABOR physiol) (CERVIX UTERI physiol)

BROTANEK, V.; KAZDA, CSo.; SEDIVA, M.

Medicinal therapy of Hick's contractions. Cesk. gyn. 27[41] no.5:  
410-412 Je '62.

1. Ustav pro peci o matku a dite v Praze-Podoli, reditel doc.  
dr. M.Vojta.

(LABOR) (MORPHINE ther)

KAZDA, S.; BROTANEK, V.

Function of estrogens and progesterones in the beginning of labor.  
Čas. Lek. Cesk. 101 no.12:49-61 23 Mr '62.

1. Ustav pro pecl o matku a dite v Praze-Podoli, reditel doc. dr. M.  
Vojta, zasl. lek.

(ESTROGENS physiol) (PROGESTERONES physiol)  
(LABOR physiol)

BROTANEK, Vl.

Relation of uterine blood supply and uterine motility. Cas. Lek. Cesk.  
101 no.12:61-64. 23 Mr '62.

1. Ustav pro peci o matku a dite, Praha-Podoli, red. doc. dr. Vojta,  
zasl. lek.

(UTERUS blood supply) (UTERUS physiology)

BROTANEK, Vl.

Relation of uterine blood supply and uterine motility. Cas. Lek. Cesk.  
101 no.16/17 Lek. Ved. Zahr.:78-81 27 Ap '62.

1. Ustav pro peci o matku a dite, Praha-Podoli, red. doc. dr. Vojta.

(UTERUS blood supply) (LABOR physiol)

BROTANEK, V.; KAZDA, S.; ROTH, L.

A method for studying uterine blood flow in pregnant women. *Physiol. Bohemoslov.* 11 no.4:358-363 '62.

1. Institute for the Care of Mother and Child and Research Institute for Communications, Prague.

(PREGNANCY)                      (UTERUS)                      (BLOOD CIRCULATION)  
(BODY TEMPERATURE)

KAZDA, S.; BROTANEK, V.

Modern methods of registering labor in pregnant women and parturients. *Cesk. gynek.* 28 no.7:470-474 S '63.

1. Ustav pro peci o matku a dite v Praze, reditel doc. dr. M. Vojta.

(LABOR) (UTERUS) (ELECTROPHYSIOLOGY)

KAZDA, S.; BROTANEK, V.; ZIDOVSKY, J.

Interference of exogenous oxytocin with the dynamics of uterine reactivity and vaginal cytology in pregnancy at term. Cesk. gynek. 28 no.7:474-478 S '63.

1. Ustav pro peci o matku a dite v Praze, reditel doc. dr. M. Vojta.

(OXYTOCIN)      (VAGINAL SMEARS)  
(LABOR)      (LABOR, INDUCED)

JUNGMANNOVA, C.; KAZDA, S.; BROTANEK, V.; SEDIVA, M.

Method of measuring motor activity of the breast in lactating women. *Cesk. fysiол.* 12 no. 6:459-462 N°63.

1. Ustav pro peci o matku a dite, Praha.

BROTANEK, V.; HODR, J.; KAZDA, S.; STEMBERA, Z.K.

Role of the CNS during labor under the influence of morphine.  
Effect of morphine on uterine activity, CNS activity and  
glycide metabolism. Cesk. gynek. 28 no.7:478-482 S '63.

1. Ustav pro peci o matku a dite v Praze, reditel doc. dr.  
M. Vojta.

(MORPHINE) (CENTRAL NERVOUS SYSTEM)  
(LABOR) (UTERUS) (CARBOHYDRATE METABOLISM)  
(BLOOD SUGAR) (PYRUVATES) (LACTATES)  
(ELECTROENCEPHALOGRAPHY)

BROTHANEK, J., inz. dr.; CERNY, Ivo, inz., CSc.

On the geologic survey service in Polish mines. Uhli 5 no.10:  
358-359 0 '63.

1. Oblastni bansky urad, Ostrava (for Brothanek). 2. Sdruzeni  
Ostravsko-Karvinskych dolu, Ostrava (for Cerny).

BROTHANEK, Jan, inz. dr.; CERNY, Ivo, inz. CSc.

Mining of protection pillars in Poland. Uhli 6 no. 2:67-69  
F '64.

1. Obvodni bansky urad, Ostrava (for Brothanek).
2. Sdruzeni Ostravsko-karvinskych dolu (for Cerny).

HOUBAL, Vaclav., Primar MUDr; BROTHANEK, Miroslav, as. MUDr.

Remarks on early diagnosis of infectious hepatitis.  
Vnitr. lek., Brno 1 no.2:134-137 Feb 55.

LZ v. vnitřního a infekčního oddělení KUNZ, fakultní nemocnice  
v Brně-Bohunicích, přednosta prim. MUDr V. Houbal  
Brno-Lisen. Náměstí 18  
(HEPATITIS, INFECTIOUS, diagnosis  
early)

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Problem of chronic progressive ophthalmoplegia. Cesk. ofth. 12  
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